WHAT IS CLAIMED IS:

- 1 1. A compound contents delivery method using a
- 2 plurality of contents servers to which a plurality of
- 3 contents are distributed to be stored in their contents
- 4 storage units, respectively, a management server for
- 5 managing delivery of contents to a portable terminal and
- 6 an intermediate apparatus for mediating supply of
- 7 contents from said plurality of contents servers to said
- 8 management server so that said plurality of contents
- 9 distributed to said plurality of contents servers are
- 10 partially fetched as contents portions to combine the
- 11 fetched contents portions according to time series for
- 12 delivering compound contents produced through the
- 13 combination thereof to said portable terminal, said
- 14 method comprising:
- an instruction information production step of, in
- 16 said management server, producing instruction
- information for the compound contents production on the
- 18 basis of a substance of said compound contents to be
- 19 produced;
- 20 a contents portion fetching instruction step of,
- 21 in said intermediate apparatus, instructing said
- 22 contents servers to fetch contents portions needed for
- 23 the compound contents production according to said
- 24 instruction information produced in said instruction
- 25 information production step;

- a compound contents element acquisition step of,
- in each of said contents servers, acquiring compound
- 28 contents element converted in encoding format for said
- 29 portable terminal in corresponding relation to said
- 30 contents portion which is an object of the fetching
- 31 instruction in said contents portion fetching
- 32 instruction step to return the acquired compound contents
- 33 element to said intermediate apparatus;
- 34 a production step of, in said intermediate apparatus,
- 35 combining said compound contents elements returned from
- 36 said contents servers according to time series on the
- 37 basis of instruction information from said management
- 38 server to produce compound contents oriented to said
- 39 portable terminal; and
- 40 a delivery step of, in said management server,
- 41 delivering said compound contents produced in said
- 42 production step to said portable terminal.
 - 1 2. A compound contents delivery method according to
 - 2 claim 1, wherein said management server is made to store
- 3 and manage said compound contents returned from said
- 4 intermediate apparatus in corresponding relation to said
- 5 instruction information in the past in a state associated
- 6 with said instruction information, and said method
- 7 further comprises:
- 8 an identity decision step of making a decision as
- 9 to the identity between said instruction information

- 10 produced in said instruction information production step
- 11 and said instruction information stored in said
- 12 management server; and
- an in-management-server first control step of, when
- 14 the decision result in said identity decision step shows
- 15 the produced instruction information is identical with
- 16 said instruction information stored and managed in said
- 17 management server, using said compound contents stored
- 18 in a state associated with the stored instruction
- 19 information as said compound contents to be delivered
- 20 to said portable terminal in said delivery step and, when
- 21 the decision shows no identity therebetween,
- 22 transmitting the produced instruction information to
- 23 said intermediate apparatus.
- 1 3. A compound contents delivery method according to
- 2 claim 2, wherein a plurality of intermediate apparatuses
- 3 each identical with said intermediate apparatus are
- 4 provided, and in said identity decision step, a decision
- 5 is additionally made as to the degree of similarity between
- 6 the produced instruction information and said
- 7 instruction information stored in said management server,
- 8 and in said in-management-server first control step, when
- 9 a decision result in said identity decision step shows
- 10 that the produced instruction information is not
- 11 identical with said instruction information stored and
- 12 managed in said management server, the produced

- 13 instruction information is transmitted to said
- 14 intermediate apparatus to which compound contents
- 15 information is returned with respect to, of said
- 16 instruction information stored and managed in said
- 17 management server, said instruction information which
- 18 is decided to be most similar to the produced instruction
- 19 information.
 - 1 4. A compound contents delivery method according to
- 2 claim 1, wherein a plurality of intermediate apparatuses
- 3 each identical with said intermediate apparatus are
- 4 provided, and in said management server, a processing
- 5 load monitoring step is implemented to monitor a
- 6 processing load in said converting unit and an
- 7 in-management-server second control step is provided to
- 8 transmit said instruction information produced in said
- 9 instruction information production step to said
- 10 converting unit having a smallest processing load on the
- 11 basis of a monitor result from said processing load
- 12 monitoring step.
- 1 5. A compound contents delivery method according to
- 2 claim 1, wherein, in said compound contents element
- 3 acquisition step, said intermediate apparatus stores and
- 4 manages said compound contents elements returned from
- 5 said contents server in the past, and said contents portion
- 6 fetching instruction step includes an

- 7 in-intermediate-unit duplication decision step of
- 8 obtaining information for specifying contents portion
- 9 needed for the compound contents production from said
- 10 instruction information and making a decision as to the
- 11 degree of duplication in substance between said contents
- 12 portion needed for the compound contents production and
- 13 said compound contents element stored and managed in said
- 14 intermediate apparatus; and
- a fetching instruction execution step for giving
- 16 a fetching instruction to said contents server on the
- 17 basis of a decision result in said in-intermediate-unit
- 18 duplication decision step.
 - 1 6. A compound contents delivery method according to
- 2 claim 5, wherein, in said fetching instruction execution
- 3 step, on the basis of the decision result in said
- 4 in-intermediate-unit duplication decision step, said
- 5 fetching instruction is not given to said contents server
- 6 with respect to a duplicate portion between a substance
- 7 of said contents portion needed for the compound contents
- 8 production and said compound contents element stored and
- 9 managed, and a compound contents element corresponding
- 10 to said duplicate portion is used in producing said
- 11 compound contents in said production step.
 - 1 7. A compound contents delivery method according to
 - 2 claim 5, wherein, in said fetching instruction execution

- 3 step, on the basis of the decision result in said
- 4 in-intermediate-unit duplication decision step, when the
- 5 substance of a portion of the contents portion needed
- 6 for the compound contents production is duplicate with
- 7 respect to said compound contents element stored and
- 8 managed, said fetching instruction on a contents portion
- 9 non-duplicate with respect to said compound contents
- 10 element is given to said contents server.
 - 1 8. A compound contents delivery method according to
- 2 claim 1, wherein each of said contents servers stores
- 3 and manages said compound contents element returned in
- 4 said compound contents element acquisition step in the
- 5 past and said compound contents element acquisition step
- 6 includes:
- 7 an in-contents-server duplication decision step of
- 8 making a decision on the degree of the duplication in
- 9 substance between the contents portion which is an object
- 10 of said fetching instruction in said contents portion
- 11 fetching instruction step and said compound contents
- 12 element stored and managed in said contents server; and
- a compound contents element reply step of, on the
- 14 basis of a decision result in said in-contents-server
- 15 duplication decision step, fetching said contents
- 16 portion, which is an object of said fetching instruction,
- 17 from said contents storage unit and making a conversion
- 18 into an encoding format for said portable terminal to

- 19 return it as a compound content element to said
- 20 intermediate apparatus.
- 1 9. A compound contents delivery method according to
- 2 claim 8, wherein, in said compound contents element reply
- 3 step, on the basis of the decision result in said
- 4 in-contents-server duplication decision step, of said
- 5 contents portion which is an object of said fetching
- 6 instruction in said contents portion fetching
- 7 instruction step, a portion duplicate in substance with
- 8 respect to said compound contents element stored and
- 9 managed is not fetched from said contents storage unit
- 10 while a compound contents element corresponding to the
- 11 substance duplicate portion is returned to said
- 12 intermediate apparatus.
 - 1 10. A compound contents delivery method according to
 - 2 claim 8, wherein, in said compound contents element reply
 - 3 step, on the basis of the decision result in said
 - 4 in-contents-server duplication decision step, of said
- 5 contents portion which is an object of said fetching
- 6 instruction in said contents portion fetching
- 7 instruction step, a portion non-duplicate in substance
- 8 with respect to said compound contents element stored
- 9 and managed is fetched from said contents storage unit
- 10 and, after a conversion is made into an encoding format
- 11 for said portable terminal, the non-duplicate portion

- 12 is returned as a compound contents element to said
- 13 intermediate apparatus.
- 1 11. A compound contents delivery method according to
- 2 claim 1, wherein, in said contents server, on the basis
- 3 of popularity, important event and the like, a contents
- 4 portion expected to be an object of said fetching
- 5 instruction in said contents portion fetching
- 6 instruction step is stored and managed as said compound
- 7 contents element in advance.
- 1 12. A compound contents delivery method according to
- 2 claim 1, wherein each of said contents distributed to
- 3 said plurality of contents servers includes data having
- 4 a time zone including voice data or motion picture data
- 5 and said contents portion is arranged through the use
- 6 of the voice or motion picture data partially extracted
- 7 from said time zone.
- 1 13. A compound contents delivery method according to
- 2 claim 12, wherein, in said contents portion fetching
- 3 instruction step in said intermediate apparatus, said
- 4 contents portion for the compound contents production
- 5 which is an object of said fetching instruction is
- 6 designated by designating information about a service
- 7 location on the internet having said contents portion,

- 8 a time zone of said contents portion, a media assortment
- 9 or an encoding condition after the encoding conversion.
- 1 14. A compound contents delivery system comprising a
- 2 plurality of contents servers to which a plurality of
- 3 contents are distributed to be stored in their contents
- 4 storage units, respectively, a management server for
- 5 managing delivery of contents to a portable terminal and
- 6 an intermediate apparatus for mediating supply of
- 7 contents from said plurality of contents servers to said
- 8 management server so that said plurality of contents
- 9 distributed to said plurality of contents servers are
- 10 partially fetched as contents portions to combine the
- 11 fetched contents portions according to time series for
- 12 delivering compound contents produced through the
- 13 combination thereof from said management server to said
- 14 portable terminal,
- said management server including:
- 16 a compound contents acquisition unit for
- 17 acquiring said compound contents on the basis of
- 18 instruction information for production of said compound
- 19 contents which is produced on the basis of a substance
- 20 of said compound contents to be produced; and
- a delivery unit for delivering said compound
- 22 contents acquired by said compound contents acquisition
- 23 unit to said portable terminal, and
- 24 said intermediate apparatus including:

- a contents portion fetching instruction unit
 for instructing said contents servers to fetch contents
 portions needed for the compound contents production when
 receiving a request for the compound contents production
- and said instruction information from said compound
- 30 contents acquisition unit;
- a production unit for combining compound

 contents elements returned from said contents servers
- 33 according to time series on the basis of said instruction
- 34 information from said management server to produce
- 35 compound contents oriented to said portable terminal;
- 36 a compound contents outputting unit for
- 37 outputting said compound contents produced in said
- 38 production unit to said compound contents acquisition
- 39 unit of said management server, and
- said each of said contents servers including:
- 41 a compound contents element acquisition unit
- 42 for acquiring a compound contents element, in which an
- 43 encoding format is converted for said portable terminal,
- 44 corresponding to said content portion which is an object
- 45 of said fetching instruction in said contents portion
- 46 fetching instruction unit to return the acquired compound
- 47 contents element to said intermediate apparatus.
 - 1 15. A compound contents delivery system according to
 - 2 claim 14, wherein said management server includes an
- 3 in-management-server storage management unit for storing

- 4 and managing compound contents returned from said
- 5 intermediate apparatus in corresponding relation to said
- 6 instruction information in a state where said compound
- 7 contents are associated with said instruction
- 8 information.
- 1 16. A compound contents delivery system according to
- 2 claim 14, wherein said intermediate apparatus includes
- 3 an in-intermediate-apparatus storage management unit for
- 4 storing and managing said compound contents element
- 5 returned from said contents server through the use of
- 6 said compound contents element acquisition unit.
- 1 17. A compound contents delivery system according to
- 2 claim 14, wherein each of said contents servers includes
- 3 a storage management unit for storing and managing a
- 4 compound content element from said compound contents
- 5 element acquisition unit.